

PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/891,793
		Filing Date	June 26, 2001
		First Named Inventor	David J. Ecker
		Art Unit	1645
		Examiner Name	Ardin H. Marschel
		Attorney Docket Number	DIBIS-0003US
Sheet	1	of	14

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
✓	AA	US-5,503,980	04-02-1996	Cantor	
	AB	US-5,527,675	06-18-1996	Coull et al.	
	AC	US-5,547,835	08-20-1996	Koster	
	AD	US-5,580,733	12-03-1996	Levis et al.	
	AE	US-5,605,798	02-25-1997	Koster	
	AF	US-5,622,824	04-22-1997	Koster	
	AG	US-5,625,184	04-29-1997	Vestal et al.	
	AH	US-5,686,242	11-11-1997	Bruice et al.	
	AI	US-5,691,141	11-25-1997	Koster	
	AJ	US-5,700,642	12-23-1997	Monforte et al.	
	AK	US-5,770,367	06-23-1998	Southern et al.	
	AL	US-5,771,324	07-07-1998	Hillenkamp	
	AM	US-5,830,655	11-03-1998	Monforte et al.	
	AN	US-5,849,492	12-15-1998	Rogan	
	AO	US-5,851,765	12-22-1998	Koster	
	AP	US-5,864,137	01-26-1999	Bocker et al.	
	AQ	US-5,869,242	02-09-1999	Kamb	
	AR	US-5,871,697	02-16-1999	Rothberg et al.	
	AS	US-5,872,003	02-16-1999	Koster	
✓	AT	US-5,876,936	03-02-1999	Ju	

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Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ - Number ⁶ - Kind Code ⁵ (if known)				
✓	AU	DE19802905	07-29-1999	Bruker Daltonik		
	AV	DE19824280	12-02-1999	Bruker Daltonik		
	AW	DE19852167	05-31-2000	Bruker Saxonia		
	AX	EP1138782	10-14-2001	Bruker Saxonia		
	AY	EP1234888	08-28-2002	Bruker Saxonia		
	AZ	EP1333101	08-06-2003	Bruker Daltonik		
	BA	GB2325002	11-11-1998	Bruker Franzen		
	BB	GB2339905	02-09-2000	Bruker Daltonik		
	BC	WO 93/03186	02-18-1993	Hoffman-La Roche		
	BD	WO 94/16101	07-21-1994	Koster		
✓	BE	WO 94/21822	09-24-1994	Koster		

Examiner Signature		Date Considered	3/2/06
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		Number - Kind Code ³ (if known)			
	BF	US-5,928,906	07-27-1999	Koster et al.	
	BG	US-5,965,363	10-12-1999	Monforte et al.	
	BH	US-5,981,176	11-09-1999	Wallace	
	BI	US-5,994,066	11-30-1999	Bergeron et al.	
	BJ	US-6,001,564	12-14-1999	Bergeron et al.	
	BK	US-6,043,031	03-28-2000	Koster et al.	
	BL	US-6,046,005	04-04-2000	Ju et al.	
	BM	US-6,051,378	04-18-2000	Monforte et al.	
	BN	US-6,054,278	04-25-2000	Dodge et al.	
	BO	US-6,074,823	06-13-2000	Koster	
	BP	US-6,090,558	07-18-2000	Butler et al.	
	BQ	US-6,104,028	08-15-2000	Hunter et al.	
	BR	US-6,111,251	08-29-2000	Hillenkamp	
	BS	US-6,140,053	10-31-2000	Koster	
	BT	US-6,146,144	11-14-2000	Fowler et al.	
	BU	US-6,153,389	11-28-2000	Haarer et al.	
	BV	US-6,159,681	12-12-2000	Zebala	
	BW	US-6,197,498	03-06-2001	Koster	
	BX	US-6,218,118	04-17-2001	Sampson et al.	
	BY	US-6,221,587	04-24-2001	Ecker et al.	
	BZ	US-6,221,601	04-24-2001	Koster et al.	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	CA	WO 96/29431	09-26-1996	Sequenom		
	CB	WO 96/32504	10-17-1996	Trust. of Boston		
	CC	WO 96/37630	11-28-1996	SRI International		
	CD	WO 97/33000	09-12-1997	Genetrace Sys.		
	CE	WO 97/37041	10-09-1997	Sequenom		
	CF	WO 98/03684	01-29-1998	Hybridon Inc.		
	CG	WO 98/12355	03-26-1998	Genetrace Sys.		
	CH	WO 98/14616	04-09-1998	Perceptive Bio.		
	CI	WO 98/15652	04-16-1998	Brax Genomics		
	CJ	WO 98/20020	05-14-1998	Sequenom Inc.		

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Sheet 3 of 14

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		Number - Kind Code ² (If known)			
✓	CK	US-6,221,605	04-24-2001	Koster	
	CL	US-6,225,450	05-01-2001	Koster	
	CM	US-6,235,476	05-22-2001	Bergmann et al.	
	CN	US-6,235,478	05-22-2001	Koster	
	CO	US-6,235,480	05-22-2001	Shultz et al.	
	CP	US-6,238,871	05-29-2001	Koster	
	CQ	US-6,238,927	05-29-2001	Abrams et al.	
	CR	US-6,258,538	07-10-2001	Koster et al.	
	CS	US-6,265,716	07-24-2001	Hunter et al.	
	CT	US-6,268,129	07-31-2001	Gut et al.	
	CU	US-6,268,131	07-31-2001	Kang et al.	
	CV	US-6,268,144	07-31-2001	Koster	
	CW	US-6,268,146	07-31-2001	Shultz et al.	
	CK	US-6,270,973	08-07-2001	Lewis et al.	
	CY	US-6,270,974	08-07-2001	Shultz et al.	
	CZ	US-6,277,573	08-21-2001	Koster	
	DA	US-6,277,578	08-21-2001	Shultz et al.	
	DB	US-6,300,076	10-09-2001	Koster	
	DC	US-6,312,893	11-06-2001	Van Ness et al.	
	DE	US-6,312,902	11-06-2001	Shultz et al.	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (If known)				
	DF	WO 98/20157	05-14-1998	Infectio Diagnost.		
	DG	WO 98/20166	05-14-1998	Sequenom Inc.		
	DH	WO 98/26095	06-18-1998	Genetrace Sys.		
	DI	WO 98/31830	07-23-1998	Brax Genomics		
	DJ	WO 98/40520	09-17-1998	Hybridon Inc.		
	DK	WO 98/54571	12-03-1998	Genetrace Sys.		
	DL	WO 99/05319	02-04-1999	Rapigene, Inc.		
	DM	WO 99/14375	03-25-1999	Genetrace Sys.		
	DN	WO 99/29898	06-17-1999	Max-Planck		
	DO	WO 99/31278	06-24-1999	Sequenom Inc.		

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	DP	US-6,361,940	03-26-2002	Van Ness et al.	
	DQ	US-6,372,424	04-16-2002	Brow et al.	
	DR	US-6,391,551	05-21-2002	Shultz et al.	
	DS	US-6,423,966	07-23-2002	Hillenkamp et al.	
	DT	US-6,428,955	08-06-2002	Koster et al.	
	DU	US-6,432,651	08-13-2002	Hughes et al.	
	DV	US-6,436,635	08-20-2002	Fu et al.	
	DW	US-6,436,640	08-20-2002	Simmons et al.	
	DX	US-6,458,533	10-01-2002	Felder et al.	
	DY	US-6,468,748	10-22-2002	Monforte et al.	
	DZ	US-6,475,736	11-05-2002	Stanton, Jr.	
	EA	US-6,479,239	11-12-2002	Anderson et al.	
	EB	US-6,500,621	12-31-2002	Koster	
	EC	US-6,558,902	05-06-2003	Hillenkamp	
	ED	US-6,566,055	05-20-2003	Monforte et al.	
	EF	US-6,582,916	06-24-2003	Schmidt et al.	
	EG	US-6,589,485	07-08-2003	Koster	
	EF	US-6,602,662	08-05-2003	Koster	
	EG	US-6,613,509	09-02-2003	Chee	
	EH	US-6,623,928	09-23-2003	Van Ness et al.	

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	EI	WO 99/57318	11-11-1999	Sequenom Inc.		
	EJ	WO 01/07648	02-01-2001	Artus Gesell.		
	EK	WO 01/23604	04-05-2001	Infectio Diagnost.		
	EL	WO 01/32930	05-10-2001	California Instit.		
	EM	WO 01/51661	07-19-2001	Amsterdam Support		
	EN	WO 01/57263	08-09-2001	Advion Biosci.		
	EO	WO 02/10186	02-07-2002	California Instit.		
	EP	WO 02/18641	03-07-2002	Sequenom- Gemini		
	EQ	WO 02/21108	03-14-2002	Large Scale		
	ER	WO 02/50307	06-27-2002	Chugai Seiyaku		

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		Number - Kind Code ² (if known)			
	ES	US-6,682,889	01-27-2004	Wang et al.	
	ET	US-2002/0045178	04-18-2002	Cantor et al.	
	EU	US-2002/0137057	09-26-2002	Wold et al.	
	EV	US-2002/0150903	10-17-2002	Koster	
	EW	US-2002/0150927	10-17-2002	Matray et al.	
	EX	US-2003/0017487	01-23-2003	Xue et al.	
	EY	US-2003/0039976	02-27-2003	Haff	
	EZ	US-2003/0064483	04-03-2003	Shaw et al.	
	FA	US-2003/0073112	04-17-2003	Zhang et al.	
	FB	US-2003/0113745	06-19-2003	Monforte et al.	
	FC	US-2003/0129589	07-10-2003	Koster et al.	
	FD	US-2003/0134312	07-17-2003	Burgoyne	
	FE	US-2003/0148284	08-07-2003	Vision et al.	
	FF	US-2003/0175729	09-18-2003	Van Eijk et al.	
	FG	US-2003/0194699	10-16-2003	Lewis et al.	
	FH	US-2003/0203398	10-30-2003	Bramucci et al.	
	FI	US-2003/0220844	11-27-2003	Marnellos et al.	
	FJ	US-2004/0005555	01-08-2004	Rothman et al.	
	FK	US-2004/0038206	02-26-2004	Zhang et al.	
	FL	US-2004/0038234	02-26-2004	Gut et al.	
	FM	US-2004/0038385	02-26-2004	Langlois et al.	

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		Country Code ² - Number ⁴ - Kind Code ⁵ (if known)				
	FN	WO 02/57491	07-25-2002	Board of Trustees of the Leland Council of Scientific		
	FO	WO 02/077278	10-03-2002	Infectio Diagnost.		
	FP	WO 02/099034	12-12-2002	High Throughput		
	FQ	WO 03/002750	01-09-2003	Infectio Diagnost.		
	FR	WO 03/008636	01-30-2003	Flinders Technol.		
	FS	WO 03/016546	02-27-2003	Keygene N.V.		
	FT	WO 03/060163	07-24-2003	Centre National		
	FU	WO 03/088979	10-30-2003	Con/Cipio GmbH		
	FV	WO 03/097869	11-27-2003			

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
✓	FW	AASERUD, D. J., et al., "Accurate base composition of double strand DNA by mass spectrometry," <i>J. Am. Soc. Mass Spectrom.</i> (1996) 7(12): 1266-1269.	
	FX	BAHRMAND, A. R. et al., "Use of restriction enzyme analysis of amplified DNA coding for the hsp65 gene and polymerase chain reaction with universal primer for rapid differentiation of mycobacterium species in the clinical laboratory," <i>Scand. J. Infect. Diseases</i> (1998) 30(5):477-80.	
	FY	BAHRMAND, A. R. et al., "Polymerase chain reaction of bacterial genomes with single universal primer: application to distinguishing mycobacteria species," <i>Mol. Cell. Probes</i> (1996) 10(2): 117-22.	
	FZ	BASTIA, T. et al., "Organelle DNA analysis of Solanum and Brassica somatic hybrids by PCR with 'universal primers'," <i>Theoretical and Applied Genetics</i> (2001) 102(8): 1265-1272.	
	GA	BOWEN, J. E. et al., "The native virulence plasmid combination affects the segregational stability of a theta-replicating shuttle vector in <i>Bacillus anthracis</i> var. New Hampshire," <i>J Appl Microbiol.</i> (1999) 87(2): 270-8.	
	GB	CAMPBELL, W. P. et al., "Detection of California serogroup Bunyaviruses in tissue culture and mosquito pools by PCR," <i>J. Virol. Methods</i> (1996) 57(2): 175-9.	
	GC	CESPEDES, A. et al., "Polymerase chain reaction restriction fragment length polymorphism analysis of a short fragment of the cytochrome b gene for identification of flatfish species," <i>J. Food Protection</i> (1998) 61(12): 1684-5.	
	GD	CHEN, C. A. et al., "Universal primers for amplification of mitochondrial small subunit ribosomal RNA-encoding gene in scleractinian corals," <i>Marine Biotech.</i> (2000) 2(2): 146-153.	
	GE	CHEN, J. et al., "A universal PCR primer to detect members of the Potyviridae and its use to examine the taxonomic status of several members of the family," <i>Arch. Virol.</i> (2001) 146(4): 757-66.	
	GF	CHO, M. et al., "Application of the ribonuclease P (RNase P) RNA gene sequence for phylogenetic analysis of the genus <i>Saccharomonospora</i> ," <i>Internat. J. of Sys. Bacteriol.</i> (1998) 48: 1223-1230.	
✓	GG	CONRAD, G. et al., "16S-23S rDNA internal transcribed spacer sequences for analysis of the phylogenetic relationships among species of the genus <i>Fusobacterium</i> ," <i>International Journal of Systematic and Evolutionary Microbiology</i> (2002) 52(2): 493-499.	
✓	GH	CORNEL, A. J. et al., "Polymerase chain reaction species diagnostic assay for <i>Anopheles quadrimaculatus</i> cryptic species (Diptera: Culicidae) based on ribosomal DNA ITS2 sequences," <i>Journal of Medical Entomology</i> (1996) 33(1): 109-16.	

Examiner Signature		Date Considered	3/2/01
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	08/891,793
		Filing Date	June 28, 2001
		First Named Inventor	David J. Ecker
		Art Unit	1645
		Examiner Name	Ardin H. Marschel
		Attorney Docket Number	DIBIS-0003US
(Use as many sheets as necessary)			
Sheet	7	of	14

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
✓	GI	CRAIN, P. F. et al., "Applications of mass spectrometry to the characterization of oligonucleotides and nucleic acids," <i>Curr Opin Biotechnol</i> (1998) 9(1): 25-34.	
	GJ	DASEN, G. et al., "Classification and identification of Propionibacteria based on 16S ribosomal RNA genes and PCR," <i>Systematic and Applied Microbiology</i> (1998) 21(2): 251-259.	
	GK	DEFORCE, D. L. et al., "Analysis of oligonucleotides by ESI-MS," <i>Advances in Chromatography</i> (2000) 40: 539-566.	
	GL	DEFORCE, D. L. D. et al., "Characterization of DNA Oligonucleotides by Coupling of Capillary Zone Electrophoresis to Electrospray Ionization Q-TOF Mass Spectrometry," <i>Anal. Chem.</i> (1998) 70(14): 3060-3068.	
	GM	DEMASURE, B. et al., "A set of universal primers for amplification of polymorphic non-coding regions of mitochondrial and chloroplast DNA in plants," <i>Mol. Ecology</i> (1995) 4(1): 129-31.	
	GN	DINAUER, D. M. et al., "Sequence-based typing of HLA class II DQB1," <i>Tissue Antigens</i> (2000) 55(4): 364-368.	
	GO	DUBERNET, S. et al., "A PCR-based method for identification of Lactobacilli at the genus level," <i>FEMS Microbiology Letters</i> (2002) 214(2): 271-275.	
	GP	FIGUEIREDO, L. T. M. et al., "Identification of Brazilian flaviviruses by a simplified reverse transcription-polymerase chain reaction method using Flavivirus universal primers," <i>American Journal of Tropical Medicine and Hygiene</i> (1998) 59(3): 357-362.	
	GQ	FLORA, J. et al., "Dual-micro-ESI source for precise mass determination on a quadrupole time-of-flight mass spectrometer for genomic and proteomic applications," <i>Anal. Bioanal. Chem.</i> (2002) 373(7): 538-46.	
	GR	FOX, A., "Report of the Bioterrorism Workshop," Duke University Thomas Center on April 2-4, 2002, organized by US Army Research Office," <i>J. Microbiol. Methods</i> (2002) 51(3): 247-54.	
✓	GS	FOX, A. et al., "Identification and detection of bacteria: electrospray MS-MS versus derivatization/GC-MS," <i>Proceedings of the ERDEC Scientific Conference on Chemical and Biological Defense Research</i> (1996) Aberdeen Proving Ground, Md., Nov. 15-18, 1994: p. 39-44.	
✓	GT	FOX, K. F. et al., "Identification of Brucella by Ribosomal-spacer-region PCR and differentiation of, <i>Brucella canis</i> from other <i>Brucella</i> spp. pathogenic for humans by carbohydrate profiles," <i>J. Clin. Microbiol.</i> (1998) 36(11): 3217-3222.	

Examiner Signature		Date Considered	5/2/06
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
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Sheet 8 of 14

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Application Number	09/891,783
Filing Date	June 26, 2001
First Named Inventor	David J. Ecker
Art Unit	1645
Examiner Name	Ardin H. Marschel
Attorney Docket Number	DIBIS-0003US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	GU	GRIFFEY, R. H. et al., "Detection of base pair mismatches in duplex DNA and RNA oligonucleotides using electrospray mass spectrometry," <i>Proceedings of SPIE-The International Society for Optical Engineering</i> (1997) 2985(Ultrasonic Biochemical Diagnostics II): 82-86.	
	GV	GRIFFIN, T. J. et al., "Direct genetic analysis by matrix-assisted laser desorption/ionization mass spectrometry," <i>Proc. Natl. Acad. Sci. USA</i> (1999) 96(11): 6301-6306.	
	GW	HANNIS, J. C. et al., "Accurate characterization of the tyrosine hydroxylase forensic allele 9.3 through development of electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," <i>Rapid Communications in Mass Spectrometry</i> (1999) 13(10): 954-62.	
	GX	HANNIS, J. C. et al., "Genotyping short tandem repeats using flow injection and electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," <i>Rapid Communications in Mass Spectrometry</i> (2001) 15(5): 348-350.	
	GY	HANNIS, J. C. et al., "Detection of double-stranded PCR amplicons at the attomole level electrosprayed from low nanomolar solutions using FT-ICR mass spectrometry," <i>Fresenius Journal of Analytical Chemistry</i> (2001) 369(3-4): 246-51.	
	GZ	HANNIS, J. C. et al., "Genotyping complex short tandem repeats using electrospray ionization Fourier transform ion cyclotron resonance multistage mass spectrometry," <i>Proceedings of SPIE-The International Society for Optical Engineering</i> (2000) 3926: 36-47.	
	HA	HAYASHI, H. et al., "Phylogenetic analysis of the human gut microbiota using 16S rDNA clone libraries and strictly anaerobic culture-based methods," <i>Microbiol. Immunol.</i> (2002) 46(8): 535-48.	
	HB	HENCHAL, E. A. et al., "Sensitivity and specificity of a universal primer set for the rapid diagnosis of dengue virus infections by polymerase chain reaction and nucleic acid hybridization," <i>American Journal of Tropical Medicine and Hygiene</i> (1991) 45(4): 418-28.	
	HC	HERRMANN, B. et al., "Differentiation of <i>Chlamydia</i> spp. by Sequence Determination and Restriction Endonuclease Cleavage of RNase P RNA Genes," <i>J. Clin. Microbiol.</i> (1996) 34(8): 1897-1902.	
	HD	HIGGINS, G. S. et al., "Competitive oligonucleotide single-base extension combined with mass spectrometric detection for mutation screening," <i>BioTechniques</i> (1997) 23(4): 710-714.	
	HE	HOFFMANN, E. et al., "Universal primer set for the full-length amplification of all influenza A viruses," <i>Archives of Virology</i> (2001) 146(12): 2275-2289.	
	HF	HONDA, K. et al., "Universal method of hypersensitive nested PCR toward forensic DNA typing," <i>International Congress Series</i> (1998) 7: 28-30.	

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
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/891,793
		Filing Date	June 26, 2001
		First Named Inventor	David J. Ecker
		Art Unit	1645
		Examiner Name	Ardin H. Marschel
(Use as many sheets as necessary)		Attorney Docket Number	DIBIS-0003US
Sheet	9	of	14

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	HG	HURST, G. B. et al., "Detection of Bacterial DNA Polymerase Chain Reaction Products by Matrix-assisted Laser Desorption/Ionization Mass Spectrometry," <i>Rapid Commun. Mass Spectrom.</i> (1996) 10: 377-382.	
	HH	HURST, G. B. et al., "MALDI-TOF analysis of polymerase chain reaction products from methanotrophic bacteria," <i>Anal. Chem.</i> (1998) 70(13): 2693-2698.	
	HI	ISOLA, N. R. et al., "MALDI-TOF mass spectrometric method for detection of hybridized DNA oligomers," <i>Analytical Chemistry</i> (2001) 73(9): 2126-2131.	
	HJ	JANKOWSKI, K. et al., "Mass spectrometry of DNA. Part 2. Quantitative estimation of base composition," <i>European Journal of Mass Spectrometry In Biochemistry</i> (1980) 1(1): 45-52.	
	HK	KAGEYAMA, A. et al., "Rapid detection of human fecal Eubacterium species and related genera by nested PCR method," <i>Microbiology and Immunology</i> (2001) 45(4): 315-318.	
	HL	KRAHMER, M. T. et al., "Electrospray quadrupole mass spectrometry analysis of model oligonucleotides and polymerase chain reaction products: determination of base substitutions, nucleotide additions/deletions, and chemical modifications," <i>Anal. Chem.</i> (1999) 71(14): 2893-900.	
	HM	KRAHMER, M. T. et al., "MS for identification of single nucleotide polymorphisms and MS/MS for discrimination of isomeric PCR products," <i>Anal. Chem.</i> (2000) 72(17): 4033-4040.	
	HN	LACROIX, J.-M. et al., "PCR-based technique for the detection of bacteria in semen and urine," <i>J. Microbiol. Methods</i> (1996) 26: 61-71.	
	HO	LEIF, H. et al., "Isolation and characterization of the proton-translocating NADH: ubiquinone oxidoreductase from <i>Escherichia coli</i> ," <i>Eur. J. Biochem.</i> (1995) 230(2): 538-548.	
	HP	LI, J. et al., "Single nucleotide polymorphism determination using primer extension and time-of-flight mass spectrometry," <i>Electrophoresis</i> (1999) 20(6): 1258-1265.	
	HQ	LITTLE, D. P. et al., "Rapid Sequencing of Oligonucleotides by High-Resolution Mass Spectrometry," <i>J. Am. Chem. Soc.</i> (1994) 116(11): 4893-4897.	
	HR	LIU, C. et al., "Improving the microdialysis procedure for electrospray ionization mass spectrometry of biological samples," <i>Journal of Mass Spectrometry</i> (1997) 32(4): 425-431.	
	HS	LIU, Y. et al., "An unusual gene arrangement for the putative chromosome replication origin and circadian expression of <i>dnaN</i> in <i>Synechococcus</i> sp. strain PCC 7942," <i>Gene</i> (1996) 172(1): 105-109.	

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Substitute for form 1449B/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/891,793
		Filing Date	June 26, 2001
		First Named Inventor	David J. Ecker
		Art Unit	1645
		Examiner Name	Ardin H. Marschel
		Attorney Docket Number	DIBIS-0003US
Sheet	10	of	14

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N	HT	LOAKES, D. et al., "Nitroindoles as Universal Bases," <i>Nucleosides Nucleotides</i> (1995) 14:1001-1003.	
	HU	LOVE, B. C. et al., "Cloning and sequence of the <i>groESL</i> heat-shock operon of <i>Pasteurella multocida</i> ," <i>Gene</i> (1995) 166(1): 179-180.	
	HV	MAIWALD, M. et al., "Characterization of contaminating DNA in Taq polymerase which occurs during amplification with a primer set for <i>Legionella</i> 5S ribosomal RNA," <i>Mol. Cell. Probes</i> (1994) 8(1): 11-14.	
	HW	MANGRUM, J. et al., "Solution composition and thermal denaturation for the production of single-stranded PCR amplicons: piperidine-induced destabilization of the DNA duplex?" <i>J. Am. Soc. Mass Spectrom.</i> (2002) 13(3): 232-40.	
	HX	MARTEMYANOV, K. A. et al., "Extremely Thermostable Elongation Factor G from <i>Aquifex aeolicus</i> : Cloning, Expression, Purification, and Characterization in a Heterologous Translation System," <i>Protein Expr. Purif.</i> (2000) 18(3): 257-261.	
	HY	MCCABE, K. M. et al., "Bacterial Species Identification after DNA Amplification with a Universal Primer Pair," <i>Molecular Genetics and Metabolism</i> (1999) 66(3): 205-211.	
	HZ	MEIYU, F. et al., "Detection of flaviviruses by reverse transcriptase-polymerase chain reaction with the universal primer set," <i>Microbiology and Immunology</i> (1997) 41(3): 209-13.	
	IA	MESSMER, T. O. et al., "Discrimination of <i>Streptococcus pneumoniae</i> from other upper respiratory tract streptococci by arbitrarily primed PCR," <i>Clin. Biochem.</i> (1995) 28(6):567-72.	
	IB	MORICCA, S. et al., "Detection of <i>Fusarium oxysporum</i> f.sp. <i>vasinfectum</i> in cotton tissue by polymerase chain reaction," <i>Plant Pathology</i> (1998) 47(4):486-494.	
	IC	MORSE, R. et al., "Nucleotide Sequence of Part of the <i>ropC</i> Gene Encoding the β' Subunit of DNA-Dependent RNA Polymerase from some Gram-Positive Bacteria and Comparative Amino Acid Sequence Analysis," <i>System Appl. Microbiol.</i> (1996) 19: 150-157.	
	ID	MUDDIMAN, D. C. et al., "Length and base composition of PCR-amplified nucleic acids using mass measurements from electrospray ionization mass spectrometry," <i>Anal. Chem.</i> (1997) 69(8): 1543-1549.	
N	IE	MUDDIMAN, D. C. et al., "Application of secondary ion and matrix-assisted laser desorption-ionization time-of-flight mass spectrometry for the quantitative analysis of biological molecules," <i>Mass Spectrometry Reviews</i> (1996) 14(6): 383-429.	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 11 of 14

Complete If Known

Application Number	09/891,793
Filing Date	June 26, 2001
First Named Inventor	David J. Ecker
Art Unit	1645
Examiner Name	Ardin H. Marschel
Attorney Docket Number	DIBIS-0003US

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✓	IF	MUDDIMAN, D. C. et al., "Important aspects concerning the quantification of biomolecules by time-of-flight secondary-ion mass spectrometry," <i>Applied Spectroscopy</i> (1996) 50(2): 161-166.	
	IG	MUDDIMAN, D. C. et al., "Precise mass measurement of a double-stranded 500 base-pair (309 kDa) polymerase chain reaction product by negative ion electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," <i>Rapid Commun. Mass Spectrom.</i> (1999) 13(12): 1201-1204.	
	IH	MUDDIMAN, D. C. et al., "Sequencing and characterization of larger oligonucleotides by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," <i>Rev. Anal. Chem.</i> (1998) 17(1): p. 1-68.	
	II	MUDDIMAN, D. C. et al., "Characterization of PCR products from bacilli using electrospray ionization FTICR mass spectrometry," <i>Analytical Chemistry</i> (1996) 68(21): 3705-12.	
	IJ	MUHAMMAD, W. T. et al., "Electrospray ionization quadrupole time-of-flight mass spectrometry and quadrupole mass spectrometry for genotyping single nucleotide substitutions in intact polymerase chain reaction products in K-ras and p53," <i>Rapid Commun. Mass Spectrom.</i> (2002) 16(24): 2278-85.	
	IK	MUSHEGIAN, A. R. et al., "A minimal gene set for cellular life derived by comparison of complete bacterial genomes," <i>Proc. Natl. Acad. Sci. USA</i> (1996) 93(19): 10268-10273.	
	IL	NAGPAL, M. L. et al., "Utility of 16S-23S rRNA spacer region methodology: how similar are interspace regions within a genome and between strains for closely related organisms?" <i>J. Microbiol. Methods</i> (1998) 33(3): 211-219.	
	IM	NAUMOV, G. I. et al., "Discrimination of the Soil Yeast Species <i>Williopsis saturnus</i> and <i>Williopsis suaveolens</i> by the Polymerase Chain Reaction with the Universal Primer N21," <i>Microbiology (Moscow) (Translation of Mikrobiologiya)</i> (2000) 69(2): 280-285.	
	IN	NULL, A. P. et al., "Evaluation of sample preparation techniques for mass measurements of PCR products using ESI-FT-ICR mass spectrometry," <i>J. Am. Soc. Mass Spectrom.</i> (2002) 13(4): 338-344.	
	IO	NULL, A. P. et al., "Preparation of single-stranded PCR products for electrospray ionization mass spectrometry using the DNA repair enzyme lambda exonuclease," <i>Analyst</i> (2000) 125(4): 619-626.	
	IP	NULL, A. P. et al., "Genotyping of Simple and Compound Short Tandem Repeat Loci Using Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry," <i>Anal. Chem.</i> (2001) 73(18): 4514-4521.	
✓	IQ	NULL, A. P. et al., "Perspectives on the use of electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry for short tandem repeat genotyping in the post-genome era," <i>Journal of Mass Spectrometry</i> (2001) 36(6): 589-606.	

Examiner Signature		Date Considered	3/2/06
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 12 of 14

Complete if Known

Application Number	09/891,793
Filing Date	June 26, 2001
First Named Inventor	David J. Ecker
Art Unit	1645
Examiner Name	Ardin H. Marschel
Attorney Docket Number	DIBIS-0003US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
2	IR	PENG, X. et al., "Rapid detection of Shigella species in environmental sewage by an immunocapture PCR with universal primers," <i>Appl. Environ. Microbiol.</i> (2002) 68(5): 2580-3.	
	IS	POMERANTZ, S. C. et al., "Determination of oligonucleotide composition from mass spectrometrically measured molecular weight," <i>J. Am. Soc. Mass Spectrom.</i> (1993) 4(3): 204-9.	
	IT	REID, S. M. et al., "Primary diagnosis of foot-and-mouth disease by reverse transcription polymerase chain reaction," <i>Journal of Virological Methods</i> (2000) 89(1-2): 167-76.	
	IU	REILLY, K. et al., "Design and use of 16S ribosomal DNA-directed primers in competitive PCRs to enumerate proteolytic bacteria in the rumen," <i>Microbiol. Ecol.</i> (2002) 43(2): 259-70.	
	IV	ROSS, P. L. et al., "Analysis of DNA fragments from conventional and microfabricated PCR devices using delayed extraction MALDI-TOF mass spectrometry," <i>Anal. Chem.</i> (1998) 70(10): 2067-73.	
	IW	ROSS, P. L. et al., "Discrimination of Single-Nucleotide Polymorphisms in Human DNA Using Peptide Nucleic Acid Probes Detected by MALDI-TOF Mass Spectrometry," <i>Anal. Chem.</i> (1997) 69(20): 4197-4202.	
	IX	SALA, M. et al., "Ambiguous base pairing of the purine analogue 1-(2-deoxy-beta-D-ribofuranosyl)-imidazole-4-carboxamide during PCR," <i>Nucleic Acids Res.</i> (1996) 24(17): 3302-6.	
	IY	SCHRAM, K. H., "Mass Spectrometry of Nucleic Acid Components," <i>Biomedical Applications of Mass Spectrometry</i> (1990) 34: 203-280.	
	IZ	SCHULTZ, J. C. et al., "Polymerase chain reaction products analyzed by charge detection mass spectrometry," <i>Rapid Communications in Mass Spectrometry</i> (1999) 13(1): 15-20.	
	JA	SESHADRI, R. et al., "Differential Expression of Translational Elements by Life Cycle Variants of <i>Coxiella burnetii</i> ," <i>Infect. Immun.</i> (1999) 67(11): 6026-6033.	
	JB	SHAVER, Y. J. et al., "Variation in 16S-23S rRNA intergenic spacer regions among <i>Bacillus subtilis</i> 168 isolates," <i>Molecular Microbiology</i> (2001) 42(1): 101-109.	
✓	JC	SHAVER, Y. J. et al., "Restriction fragment length polymorphism of rRNA operons for discrimination and intergenic spacer sequences for cataloging of <i>Bacillus subtilis</i> sub-groups," <i>J. Microbiol. Methods</i> (2002) 50(2): 215-23.	
2	JD	SRINIVASAN, J. R. et al., "Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry as a rapid screening method to detect mutations causing Tay-Sachs disease," <i>Rapid Communications in Mass Spectrometry</i> (1997) 11(10): 1144-1150.	

Examiner Signature		Date Considered	3/2/06
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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/891,793
		Filing Date	June 26, 2001
		First Named Inventor	David J. Ecker
		Art Unit	1645
		Examiner Name	Ardin H. Marschel
		Attorney Docket Number	DIBIS-0003US
Sheet	13	of	14

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	JE	STEFFENS, D. L. et al., "Sequence analysis of mitochondrial DNA hypervariable regions using infrared fluorescence detection," <i>BioTechniques</i> (1998) 24(6): 1044-1046.	
	JF	TAKAHASHI, H. et al., "Characterization of <i>gyrA</i> , <i>gyrB</i> , <i>grlA</i> and <i>grlB</i> mutations in fluoroquinolone-resistant clinical isolates of <i>Staphylococcus aureus</i> ," <i>J. Antimicrob. Chemother.</i> (1998) 41(1): 49-57.	
	JG	TONG, J. et al., "Ligation reaction specificities of an NAD ⁺ -dependent DNA ligase from the hyperthermophile <i>Aquifex aeolicus</i> ," <i>Nucleic Acids Res.</i> (2000) 28(6): 1447-1454.	
	JH	VAN AERSCHOT, A. et al., "In search of acyclic analogues as universal nucleosides in degenerate probes," <i>Nucleosides & Nucleotides</i> (1995) 14(3-5): 1053-1056.	
	JJ	VAN BAAR, B. L., "Characterisation of bacteria by matrix-assisted laser desorption/ionisation and electrospray mass spectrometry," <i>FEMS Microbiol. Rev.</i> (2000) 24(2): 193-219.	
	JJ	VAN CAMP, G. et al., "Amplification and sequencing of variable regions in bacterial 23S ribosomal RNA genes with conserved primer sequences," <i>Curr. Microbiol.</i> (1993) 27(3): 147-51.	
	JK	WALTERS, J. J. et al., "Genotyping single nucleotide polymorphisms using intact polymerase chain reaction products by electrospray quadrupole mass spectrometry," <i>Rapid Commun. Mass Spectrom.</i> (2001) 15(18): 1752-1759.	
	JL	WIDJOJOATMODJO, M. N. et al., "Rapid identification of bacteria by PCR-single-strand conformation polymorphism," <i>J. Clin. Microbiol.</i> (1994) 32(12): 3002-3007.	
	JM	WOLTER, A. et al., "Negative Ion FAB Mass Spectrometric Analysis of Non-Charged Key Intermediates in Oligonucleotide Synthesis: Rapid Identification of Partially Protected Dinucleoside Monophosphates," <i>Biomed. Environ. Mass Spectrom.</i> (1987) 14: 111-116.	
	JN	WOO, T. H. S. et al., "Identification of <i>Leptospira inadai</i> by continuous monitoring of fluorescence during rapid cycle PCR," <i>Systematic and Applied Microbiology</i> (1998) 21(1): 89-96.	
	JO	WUNSCHER, D. et al., "Discrimination among the <i>B. cereus</i> group, in comparison to <i>B. subtilis</i> , by structural carbohydrate profiles and ribosomal RNA spacer region PCR," <i>Systematic and Applied Microbiology</i> (1995) 17(4): 625-35.	
	JP	WUNSCHER, D. S. et al., "Analysis of double-stranded polymerase chain reaction products from the <i>Bacillus cereus</i> group by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," <i>Rapid Communications in Mass Spectrometry</i> (1996) 10(1): 29-35.	

Examiner Signature		Date Considered	3/2/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	14	of	14
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Complete if Known

Application Number	09/891.793
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Filing Date	June 26, 2001
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First Named Inventor	David J. Ecker
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Art Unit	1645
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Examiner Name	Ardin H. Marschel
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Attorney Docket Number	DIBIS-0003US
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